

Scott M. Matheson
Governor



James O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing
and Standards

OFFICES

Administrative Services
Health Planning and
Policy Development
Medical Examiner
State Health Laboratory

STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110

Alvin E. Rickers, Director
Room 426 801-533-6121

JAN 21 1981

DIVISION OF
OIL, GAS & MINING

533-6146

January 19, 1981

RECEIVED
JAN 21 1981

DIVISION OF
OIL, GAS & MINING

Richard A. Dye
Atlas Minerals
Big Indian Mines
Moab, Utah 84532

RE: Velvet Mine

Dear Mr. Dye:

The plans and information relating to the Atlas Minerals Velvet Mine uranium water treatment facility near Monticello, Utah have been reviewed. The October 22, 1980 engineering report and plan VE-T-154e through 157e were reviewed.

As a result of our review, the plans for the Atlas Velvet Mine wastewater treatment ponds are approved and a construction permit as constituted by this letter is hereby issued provided:

1. The outlet pipe has a submerged inlet or appropriate baffle to prevent the discharge of oil.
2. The compacted clay liner is increased to at least 1 foot
3. Information on the pipeline location slope, joints, and cleanouts is submitted to this office for review and approval.

The two ponds are designed for the flocculation, settling and Ba Cl₂ treatment of .036 MGD of mine drainage. The 610,000 gallon storage pond and 260,000 gallon barium chloride pond will have a clay liner and be treated with an enzyme to reduce seepage. The dike will be appropriately rip rapped at the outfalls and have a slope of three horizontal to one vertical and a dike crest width of ten feet. The Ba Cl₂ solution will be added at a rate of approximately 10 mg/l of incoming water.

Issuance of this construction permit is not an approval of effluent concentrations. Should the effluent not meet state or federal discharge requirements, you must provide whatever additional

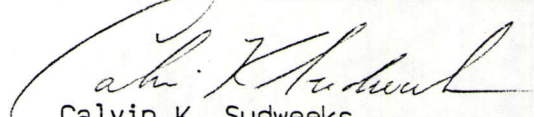
treatment is necessary. You should submit to this office a monthly report of the chemicals added, flow, TDS, TSS, Radium, alpha, beta, pH, oil and grease concentrations.

A report identifying the alpha and beta nuclides and their environmental impact should also be submitted to this office by December 31, 1981.

Federal law also requires that you apply to EPA for a discharge permit.

Sincerely,

UTAH WATER POLLUTION COMMITTEE

A handwritten signature in dark ink, appearing to read "Calvin K. Sudweeks", is written over the typed name.

Calvin K. Sudweeks
Executive Secretary

SRM:laf

cc: Oil, Gas & Mining
Robert Burm - EPA / Denver
Southeast 208
Southeastern District Health Department